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ABU	Plant	Revalidation	Start Date	End Date	Facilitator	Scribe			
Cracking	Alkylation Plant	2008	4/2/2008	5/8/2008	C. Rene' Murata				
Core Team Memb	ers / Role		Close Out Mee	ting Participants / Ro	le				
Caroline Lauro, Proces	ss Engineer Tom Mays, Head Op	perator	Doug Fryer, Caroline Lauro, Chris Watson, Mike Huff						
Additional Partici	pants / Role		Entire PHA Report						
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Comments									
Reviewed By	Date Feedback/	Comments							

Section No	Section Des	cription							
11	V-1411 throug	h K-1420 and E-1420A-P to V-1420							
Item WhatIf	Deviation	A/C	SOE	RR	ABU Proposal	Resolution	Owner	Due By	Status
11.1.1.1 16625	No Flow	6. Concern is that failure of the K- 1420 may lead to compressor damage resulting in personnel exposure. Consider CBO refresher training on simulator for K-1420	S		Review training material, train more often on K-1420 (1-3 X/ yr) shutdown sequence.	Simulator training, including New Job Class, Panel Evaluations and refresher, have and will be used as time is available at the Vista Simulation Training Center. A more	Hanson, Christopher J.	1/1/2009	Completed

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shutdown. (PHA)

consistant resolution might be to add
a Satelite Simulation Station in the
Cracking Area Control Center, similar
to the ones at Hydro and D&R.

Section	No	Section Descri	ption							
18		C-1430 through E	-1433 A/B and E-1434 to V-1421, incl	luding	E-14	132				
Item	WhatIf	Deviation	A/C	SOE	RR	ABU Proposal	Resolution	Owner	Due By	Status
18.14.1.1	16627	Startup/Shutdown	n 8. Concern: Water in column/ exchangers during start-up. Consider adding use of C-1430 bottoms to C-1400 line during startup of C-1430	A		Verify if in procedure, and add if necessary.	C-1430 start up procedure, ALK-NP- 5410, has been updated to include the above recommendation.	Hanson, Christopher J.	8/14/2008	Completed
18.2.4.1	16626	More Flow	7. Concern is that the 4" valve at LCV-438 manifold is inadvertently opened. Consider adding to the car seal list C-1430 bottoms bypass to C-1400.	Α		Evaluate need, then add to list. (If decided necessary.)	162 2 2 2	Christopher J.	8/14/2008	Completed

Section No	Section Des	cription							
21	V-1411 to P-1	410/A through E-1410A/B and E-1414	A/B	.o V-	1440				
Item WhatIf	Deviation	A/C	SOF	RR	ABU Proposal	Resolution	Owner	Due By	Status
21.1.1.1 16628	No Flow	9. Concern is that these pumps run at the top of their curve which may lead to pump failure with the possibility of personnel exposure. Consider installing larger pumps.	S	5	Consider installing alarm to indicate APS activation, thus decreasing the likelihood. Restrict discharge flow. Include pump upgrade on IPR list as a safety item. Alarm due 10/31/2008 Pump upgrade decision 4/19/2009	,	Watson, Christopher	4/19/2009	Completed
21.1.1.1 16629	No Flow	10. Update P&ID 321421 to indicate EBV # for V-1441 (14-HS-440)	S	5	Ensure that the P&IDs are updated.	P&ID 321421 was updated to show EBV installation including volume tank. Scanned drawing was sent to Drafting.	Tirona, Martin	2/15/2009	Completed

Section No	Section Description							
22	V-1411 & V-1412							
Item WhatIf	Deviation	A/C	SOE RR	ABU Proposal	Resolution	Owner	Due By	Status

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22.5.1.1 16630	Mis-Directed Flow	11. Concern is that the V-1412 drain to OWS may be inadvertently opened leading to personnel exposure. Consider installing reversible blind on V-1412 drain to OWS.	S	7	Verify that there is a blind, if not, install one.	A work request was issued to install blinds to the OWS. Blinds have been installed and item is complete.		2/28/2009 Completed
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Section No 25		ection Description 1400 through E-1400A-F to V-1400											
Item WhatIf 25.1.1.1 16631	Deviation No Flow	A/C 13. Update P&ID to reflect third PSV #7 on C-1400	SOE RR		Resolution MOC # 14600 has the P&ID markup that was submitted to Drafting. No additional P&ID updates are required. New PSV AL-1470 is updated on database.	Owner Tirona, Martin	Due By 1/31/2009						

Section	No	Section Des	cription						
26		V-1400 reflux,	recycle and excess Isobutane lines						
Item	WhatIf	Deviation	A/C	SOE R	R ABU Proposal	Resolution	Owner	Due By	Status
26.1.1.1	16632	No Flow	14. Concern is that failure of these pumps may lead to a release to atmosphere and possible personnel exposure. Consider installing larger capacity P-1400s.	S	Consider installing alarm to indicate APS activation, thus decreasing the likelihood. Restrict discharge flow. Include pump upgrade on IPR list as a safety item. Alarm due 1/31/2009 Pump upgrade decision due 4/19/2009	discharge pressure (14PI775)	Watson, Christopher	4/19/2009	Complete
26.10.1.1	. 16634	More Level	14. Concern is that failure of these pumps may lead to a release to atmosphere and possible personnel exposure. Consider installing larger capacity P-1400s.	S	Consider installing alarm to indicate APS activation, thus decreasing the likelihood. Restrict discharge flow. Include pump upgrade on IPR list as a safety item. Alarm due 1/31/2009 Pump upgrade decision due 4/19/2009	discharge pressure (14PI775)	Watson, Christopher	5/19/2009	Complete
26.2.4.1	16633	More Flow	14. Concern is that failure of these pumps may lead to a release to atmosphere and possible personnel exposure. Consider installing larger capacity P-1400s.	S	Consider installing alarm to indicate APS activation, thus decreasing the likelihood. Restrict discharge flow. Include pump upgrade on IPR list as a safety item. Alarm due 1/31/2009 Pump upgrade decision due 4/19/2009	discharge pressure (14PI775)	Watson, Christopher	5/19/2009	Complete

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Section No	Section Des	scription							
29	C-1400 Botton	ns							
Item WhatIf	Deviation	A/C	SOE	RR	ABU Proposal	Resolution	Owner	Due By	Status
29.5.4.1 16636	Mis-Directed Flow	15. Concern is that the NC 8" block valve on C-1400 bottoms between C-1220 feed and C-1220 bottoms return is inadvertently opened. Consider adding to CSC closed list.	A		Evaluate need, then add to list. (If decided necessary.)	Evaluated the need for adding valve to the carseal list, with Tom Mays (Alky HO) and decided that the Normal Operating Procedures for starting up and shutting down C-1400/C-1220 sufficiently cover the opening and closing of the valve. No need to add to the list.	Hanson, Christopher J.	8/14/2008	Completed

Section No	Section Des	cription							
31	C-420 to V-42	0							
Item WhatIf	Deviation	A/C	SOE	RR	ABU Proposal	Resolution	Owner	Due By	Status
31.2.1.1 16637	More Flow	16. Update P&ID D-319791 regarding rotameter, there isn't one.		9		P&ID 319791 was updated to remove rotameter. Scanned drawing was sent to Drafting for update.	Tirona, Martin	1/31/2009	Completed

Section No	Section Des	cription												
36	Acid from V-14	d from V-1440 to V-470												
Item WhatIf	Deviation	A/C	SOE RR	ABU Proposal	Resolution	Owner	Due By	Status						
36.2.7.1 16639	More Flow	18. Update P&ID to reflect that P- 1445/A is OOS. (Alkat system)		Ensure the P&IDs are updated.	P&ID 321420 was updated to show P-1445/A as out of service. Scanned drawing was sent to Drafting for update.	Tirona, Martin	1/31/2009	Completed						

Section N	lo i	Section Desc	ription						
37	,	V-1481 with P-1	481, V-1473 with P-1474/A and D-1	482					
Item \	WhatIf	Deviation	A/C	SOE RR	ABU Proposal	Resolution	Owner	Due By	Status
37.15.2.1 1	16648	Leak/Rupture	An AC from 2001 had not been closed due to not being assigned. Determine need for project to redesign strong acid sewer.		Determine need for project and make recommendation to do it, or reject it.	The Strong Acid sewer re-design has been added to the 2010 Shutdown worklist and should be completed during the planned TA	Moore, Ronald A.	5/19/2009	Complete

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Section No	Section Description Degassers to General Chemical									
Item WhatIf	Deviation	A/C	SOE I	RR	ABU Proposal		Resolution	Owner	Due By	Status
38.5.1.1 16641	Mis-Directed Flow	19. Concern is that the degasser bypass valve may be inadvertently opened delivering contaminated Spent Acid to General Chemical. Consider labeling the spent acid lines.c	S	6 La	abel lines.	indicate l	nt bake alite tag instiled to bypass valve so it wont be ntly opened.		12/31/2008	Completed

Section No Section Description										
4		R-900 C5 SHU Reactor to Alky Feed								
Item	WhatIf	Deviation	A/C	SOE RR	ABU Proposal	Resolution	Owner	Due By Status		
4.1.2.1	16620	No Flow	Concern: PFDs and P&IDs have not been updated to accurately reflect the current equipment configuration. Ensure all SHU drawings are updated.		Ensure SHU drawings are up to date.	Action item needs to be more specific on which items on the PFDs and P&IDs need to be up to date. P&IDs and PFDs will be reviewed and updated as DED work on the SHU.		1/31/2009 Decline		

Section No	Section Desc R-1410A/B to/fr									
Item WhatIf 7.15.1.1 16624	Human Factors 5	A/C 5. Concern is that power leads may be installed incorrectly leading to Contactor seal damage. Consider adding a check for motor rotation on start-up procedure.	SOE	RR 6 Update	ABU Proposal procedure	ALK-NP-4140 r concern. Added check motor ro	modified to reflect d Pre-requisite to otation after and prior to start-up.	Owner Hanson, Christopher J.	Due By 10/31/2008	Status Completed

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